

**Tuesday, October 19, 2021**

---

**7:00 - 7:50 am**

**Registration / Breakfast in ExpoZone**

**8:00 - 8:15 AM**

**Welcome and Introductory Remarks**

Gordon Bachinsky, Founder—Wheel Rail Seminars

**8:15 - 8:25 am**

**Introduction and Principles Course Overview**

Kevin Oldknow, Organizing Chair and Program Director—

Wheel Rail Seminars

---

**SESSION 1**

**8:25 - 9:00 AM**

**Wheel / Rail Contact Mechanics**

Kevin Oldknow, Director, School of Sustainable Energy

Engineering—Simon Fraser University

---

**SESSION 2**

**9:15 - 9:50 AM**

**Track Structures, Components and Geometry**

Gary Wolf, President—Wolf Railway Consulting, LLC

---

**10:00 - 10:25 AM - Break in ExpoZone**

---

**SESSION 3**

**10:25 - 11:00 AM**

**Vehicle Types, Suspensions and Components**

Elton Toma, Senior Engineer—NRC, Canada

---

**SESSION 4**

**11:15 - 11:50 AM**

**Vehicle/Track Interaction & Dynamics**

Rob Caldwell, Senior Engineer—NRC, Canada

---

**12:00 - 1:10 PM - Lunch in ExpoZone**

---

**SESSION 5**

**1:15 - 1:50 PM**

**Wheel / Rail Damage Mechanisms**

Richard Stock, Global Head of Rail Solutions—

Plasser & Theurer

---

**SESSION 6**

**2:05 - 2:40 PM**

**Vehicle / Track Measurement Technologies**

Matthew Dick, Deputy Division Manager, Commercial

Business Operations—ENSCO Rail, Inc.

---

**2:50 - 3:15 PM - Break in ExpoZone**

---

**SESSION 7**

**3:15 - 3:50 PM**

**Maintaining the Optimized Wheel/Rail Interface**

Eric Magel, Principal Engineer—NRC, Canada

---

**SESSION 8**

**4:05 - 4:40 PM**

**Special Trackwork in Heavy Haul: Design,  
Field Testing and Maintenance**

Brad Kerchof, Former Director Research & Tests—

(Retired) Norfolk Southern

---

**4:50 - 5:00 PM**

**Principles Course Recap**

Kevin Oldknow, Organizing Chair and Program Director—

Wheel Rail Seminars

---

**5:00 - 5:15 PM**

**Closing Remarks**

Gordon Bachinsky, Founder—Wheel Rail Seminars

---

**4:00 - 7:30 PM - Heavy Haul Seminar Registration**

---

**6:00 - 7:30 PM - Heavy Haul Seminar Welcome Reception  
in ExpoZone**

---

**SEMINAR SPONSORS**

PRESENTING SPONSOR



PLATINUM LEVEL SPONSORS



GOLD LEVEL SPONSORS



SILVER LEVEL SPONSORS



BRONZE SPONSORS



## SAVE THIS AGENDA

### Seminar Sessions Download Instructions

Go to:

[www.wheel-rail-seminars.com/pc-papers/](http://www.wheel-rail-seminars.com/pc-papers/)

Click the links to download any or all sessions  
from the seminar.

Sessions will be posted by 11/5/21

Questions? Email [brandon@wheel-rail-seminars.com](mailto:brandon@wheel-rail-seminars.com)

**Continuing Education/  
Professional Development  
credits are available  
for this event.**

Forms must be filled out completely.  
The certificate will be emailed to you  
after the conference.

[www.wheel-rail-seminars.com](http://www.wheel-rail-seminars.com)

SPECIAL THANKS TO OUR  
2021 PRESENTING SPONSOR



# WRI 2021

# WRI 2021 PRINCIPLES COURSE AGENDA



CHICAGO, IL  
OCTOBER 19, 2021

PRESENTING SPONSOR

